

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Reissue

Application Serial No: 09/014,518 Group Art Unit: 1615

Applicant:

Roderick Thompson Examiner:

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For:

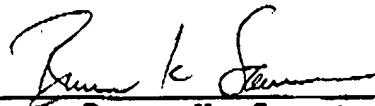
U.S. Patent 5,472,790

DECLARATION OF BRUCE K. SAUER

Bruce K. Sauer does declare that:

1. The testing as described in my letter of October 31, 1997 (copy attached) was in fact performed and the results were as described in that letter.

I declare under penalty of perjury that the foregoing is true and correct.

Date: 5-26-98

Bruce K. Sauer
Lab Director
OCM Test Laboratory

Test Report



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Background:

A group of plastic sheeting samples identified as "COUNTER-MAID®" were submitted for the purpose of performing a material identification by use of Fourier Transform Infrared (FTIR) analysis and Differential Scanning Calorimetry (DSC).

The submitted samples were identified as a Polypropylene Copolymer. The purpose of this set of tests is to determine if this is indeed what the material is.

Methods of Testing:

FTIR testing was performed by removing a small amount of material from both sides of the sample and performing diffuse reflectance spectroscopy.

DSC testing was performed by cutting a sample weighing 7.20 mg, placing it in a sealed aluminum pan and performing a DSC test at a heating rate of 10°C per minute.

Test Results:

The FTIR analysis of the sample best matched that of Polypropylene Copolymer. See attached spectra's. The primary difference between the copolymer and homopolymer is the peak at 723 cm⁻¹, this is indicative of a secondary material being present.

The DSC analysis of the COUNTER-MAID® sample shows a slight inflection in the slope at about 120°C. This is indicative of a copolymer. See attached DSC curves. You will notice the homopolymer standard shows a fairly flat slope prior to the transition of the polypropylene, where the copolymer standard shows an inflection.

Submitted by,

A handwritten signature in black ink, appearing to read "Bruce K. Sauer".

Bruce K. Sauer
Lab Director